KUSHEV, V.G.

Micromrdulite dike in the region of the Sea of Azov. Trudy Lab. geol. dokem. no.19:381-382 '64
(MIRA 17:8)

YE[illegible]V, N.A.; KU[illegible], V.G.

Intrusions of alkaline-[illegible], their internal structure and chemical composition [illegible] of the Sea of Azov). Trudy Lab. geol. dokem. no.19:[illegible] '6[illegible]
(MIRA 17:8)

1. Otvetstvennyy redaktor [illegible] "[illegible] i geokhronologiya dokembriya", chlen-korrespondent [illegible] (for Yeliseyev).

KUSHEV, V.G.

Natural magnesium iron low-alumina micas in the ferruginous quartzites of the Krivoy Rog Basin. Dokl. AN SSSR 157 no.5: 1121-1124 Ag '64. (MIRA 17:9)

1. Laboratoriya geologii dokembriya AN SSSR. Predstavleno akademikom V.S. Sobolevym.

YELISEYEV, Nikolay Aleksandrovich; KUSHEV, Vadim Georgiyevich; VINOGRADOV, Dmitriy Pavlovich

[Proterozoic intrusive complex in the eastern part of the region of the Sea of Azov] Proterozoiskii intruzivnyi kompleks vostochnogo Priazov'ia. Moskva, Nauka, 1965. 203 p. (MIRA 18:6)

1. Chlen-korrespondent AN SSSR (for Yeliseyev).

KUSHEV, V. L.

27843. Kushev, V. L. Biometody v bor'be s vreditelyami lesnykh polos
les i step' 1949, No. 1 s. 46-49.

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

KUSHEV, V.L.

Bioecological sketches. Uch.zap.Biol.-pochv.fak.Kir.un. no.4:83-116 '54.

(Ichneumon flies) (MLRA 10:5)

BRESLER, S.Ye.; KRENEVA, R.A.; KUSHEV, V.V.; MOSEVITSKIY, M.I.

Participation of both strands of DNA in the transfer of genetic information. Biokhimiia 29 no.3:477-486 My-Je '64. (MIRA 18:4)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

KUSHEVA-MARKOVA, N.

Influence of ions in sedimentation processes of less soluble salts. p. 111.

GODISHNIK. KHIMILA. Sofiia, Bulgaria, Vol. 50, No. 2, 1955/56 (published 1958)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

BLIZNAKOV, G.; KUSHEVA-MARKOVA, N.

Influence of aluminum on zinc crystallization. Godishnik khim 53 no.3:51-60 '58/'59 [publ. '59].

KUSHEVA-MARKOVA, Nadia

Zirconium, an interesting natural element. Priroda Bulg 13 no.3: 56-60 My-Je '64.

MISHEVA-MAKSIMOV, L.S.

Structure and physicomechanical properties of the wood of Kentucky coffee tree. Biul. Glav. bot. sada no.56:11-17 '64. (MIRA 18:5)

1. Glavnyy botanicheskiy sad AN SSSR.

Causes of formation of zinc sponge on the cathode in zinc electrolytes at low current densities. R. Yu. Bek, and I. P. Kushevich. [illegible] Tekhnol. Inst. im. D. I. Mendeleeva 1956, No. 22 [illegible] Previous explanations (cf. Trudy Moskov. Khim. [illegible] Inst. im. D. I. Mendeleeva 195[illegible]) [illegible] that the formation of Zn sponge during electrolysis was caused by colloidal particles formed from [illegible] Zn as a result of differential e.m.f. at the [illegible] cathode confirmed by an expt. The addn. of 0.005-0.01 g. [illegible] of As, or Sb salts to the Zn electrolyte prevented the formation of the sponge during electrolysis [illegible]. Sketches of various shapes of [illegible] protruding, show the location and [illegible] deposit.

[illegible]

KUSHEVICH, I.F.

USSR/Physical Chemistry - Electrochemistry.

Abs Jour : Referat Zhur - Khimiya, No 6, 25 March 1957, 18704 B-12

Author : Kudryavtsev, N.T., Bek R.Yu., and Kushevich, I.F.
Inst : Zh. fiz. khimii, 1952, 26, No 2.
Title : Reasons of Formation of Zinc Sponge Upon Cathodes of Zinc-Containing Electrolytes at Currents of Low Densities

Orig Pub : Tr. Mosk khim-tekhnol. in-ta, 1956, vyp. 22, 137-142

Abstract : The mechanism of Zn-sponge formation on a cathode, at low densities of current, in zinc-containing electrolytes and, in particular, the part played by anodes and ions of nobler metals and oxidizing agents, is investigated. It is shown that when electrolysis is carried on with unsoluble anodes (Pt and Ni) the sponge is formed only at the upper part of cathode near the boundary of the electrolyte with air, and that when electrolysis is carried on with Zn-anode the sponge is formed over the whole surface. When the anode and cathode spaces are

Card 1/2

separated by an intermediate electrolytic vessel the sponge on the cathode is not formed. This confirms the suggestion, made earlier, according to which the reason of sponge formation lies in colloidal particles of Zn which fall from the anode upon the surface of the cathode. Additions of As, Sb and Se in small concentrations (0.005 - 0.01 g/ℓ) prevent the sponge formation, while in large concentrations they promote sponge formation, in the same manner as additions of Pb. Introduction into the solution of oxidizing agents (H_2O_2, KNO_3, CrO_3 and others), in sufficient quantities, promotes sponge formation because of redissolving of Zn from the cathode and formation in the solution of ultramicrons of Zn. The experimental material is being explained satisfactorily from the standpoint of the theory which was advanced before.
(Kudryavtsev, N.T., Zh. fiz. khimii, 1952, 26, No 2)

Card 2/2

KUSHEVICH, I.F.

18

4E4j

Causes of local sponge formation on cathodes in zincate electrolytes. N. T. Kudryavtsev, R. Yu. Bek, and I. E. Kushchev. *Zhur. Priklad. Khim.* 30, 1093-6(1957); cf. C.A. 47, 4765c.—The causes of local sponge formation on cathodes were detd. in an electrolyte contg. from 0.2 to 0.4N Zn in 2.5N NaOH at 20° with c.d. of about 0.2 amp./sq.dm. Spongy Zn deposits (on Cu) formed with sol. (Zn) and insol. Pt and Ni anodes. With the former the spongy deposit formed over the entire area of the electrode, whereas with insol. anodes it formed primarily at the liquid-air boundary and only a few specks appeared below the surface. That these were due to some spongy material falling off the boundary was shown by expts. with cathodes bent in U-shape so that one leg, shorter than the other, was under the surface of the electrolyte; no spongy deposit formed on the shorter leg. The addn. of Sn, Pb, Hg, Se, As, and Sb (0.005-0.01 g./l.) to zincate electrolytes prevented sponge formation. On the other hand, H_2O_2, KNO_3, and other oxidizing substances, when present in high concns., caused sponge formation with sol. and insol. anodes. I. Bencowitz

NT

Kushi, I.

USSR/ Miscellaneous - Radio broadcasting

Card 1/1 Pub. 89 - 6/21

Authors : Kushi, I., Engineer

Title : Radio broadcasting in Albania

Periodical : Radio 7, page 17, Jul 1955

Abstract : The development of the Albanian national broadcasting system during the post war years (under communist regime) is described. It is stated that the Albanian radio broadcasting system transmits daily broadcasts in eight foreign languages.

Institution : ....

Submitted : .....

Country : USSR
Category : Forestry. Biology and Typology of the Forest. K

Abs Jour : RZhBiol., No 6, 1959, No 24704

Author : Kushik, S. A.
Inst : Ukrainian Agricultural Academy.
Title : Spruce-Forest Types of the Shepot Forestry of the Putil' State Forest Economy in Chernovitskaya Oblast and Regeneration Processes under the Canopy of Plants and on Clearings.

Orig Pub : Sb. tr. nauchno-issled. rabot Ukr. s.-kh. akad., 1958, vyp. 3, 143-144

Abstract : Within the limits of Shepot Forestry (Chernovitskaya Oblast), spruce forests grow on recent argillaceous podzol burozems at a height of 700-900 m above the sea level. The woodruff spruce, which occupies the middle parts of the slopes of southwestern and southeastern exposu-

Card : 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927820014-

Country : USSR
Category : Forestry. Biology and Typology of the Forest. K

Abs Jour : RZhBiol., No 6, 1959, No 24704

Author :
Inst :
Title :

Orig Pub :

Abstract : res, is the most widely distributed type, the wood-sorrel spruce, which adapted itslef to the lower parts of the slopes where humidity is somewhat higher, is also widely distributed. The trees are single-staged with a density of the treetops equaling to 0.7-0.8. Regeneration is very good in the amount of around 100 thousand pieces per one hectare. In clea-

Card : 2/3

USSR/Cultivated Plants - Fodders. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53674

centners/ha. Mixtures of Sudan grass with legume cultures produced 30% more of thin roots (diameter < 1 mm) than the pure sowing of Sudan grass or the sowing of perennial grasses. Toward fall, 24% of the thin roots of the accumulated mixture of Sudan grass and vetchling underwent decomposition. With regard to the accumulation of water resistant soil aggregates, the total N content and the content of nitrates- the mixtures of Sudan grass with legume cultures were almost equal to the perennial grasses. The buckwheat yield on the mixture of Sudan grass and vetch comprised 13.6 centners/ha; on the Sudan grass the yield was 12.9 centners/ha; on the vetch-oat mixture 13.5 centners/ha and on the perennial grasses - 13.7 centners/ha. The hay yield of the mixture of Sudan grass with vetch comprised 43.4 centners/ha; the yield of Sudan grass was 40.4 centners/ha; the yield of vetch-oat mixture was 28.7 centners/ha and the yield of the

Card 2/3

USSR/Cultivated Plants - Fodders.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53674

under cover sowing of alfalfa with couch grass of first year use - was 21.9 centners/ha. -- V.V. Koperzhinskiy

Card 3/3

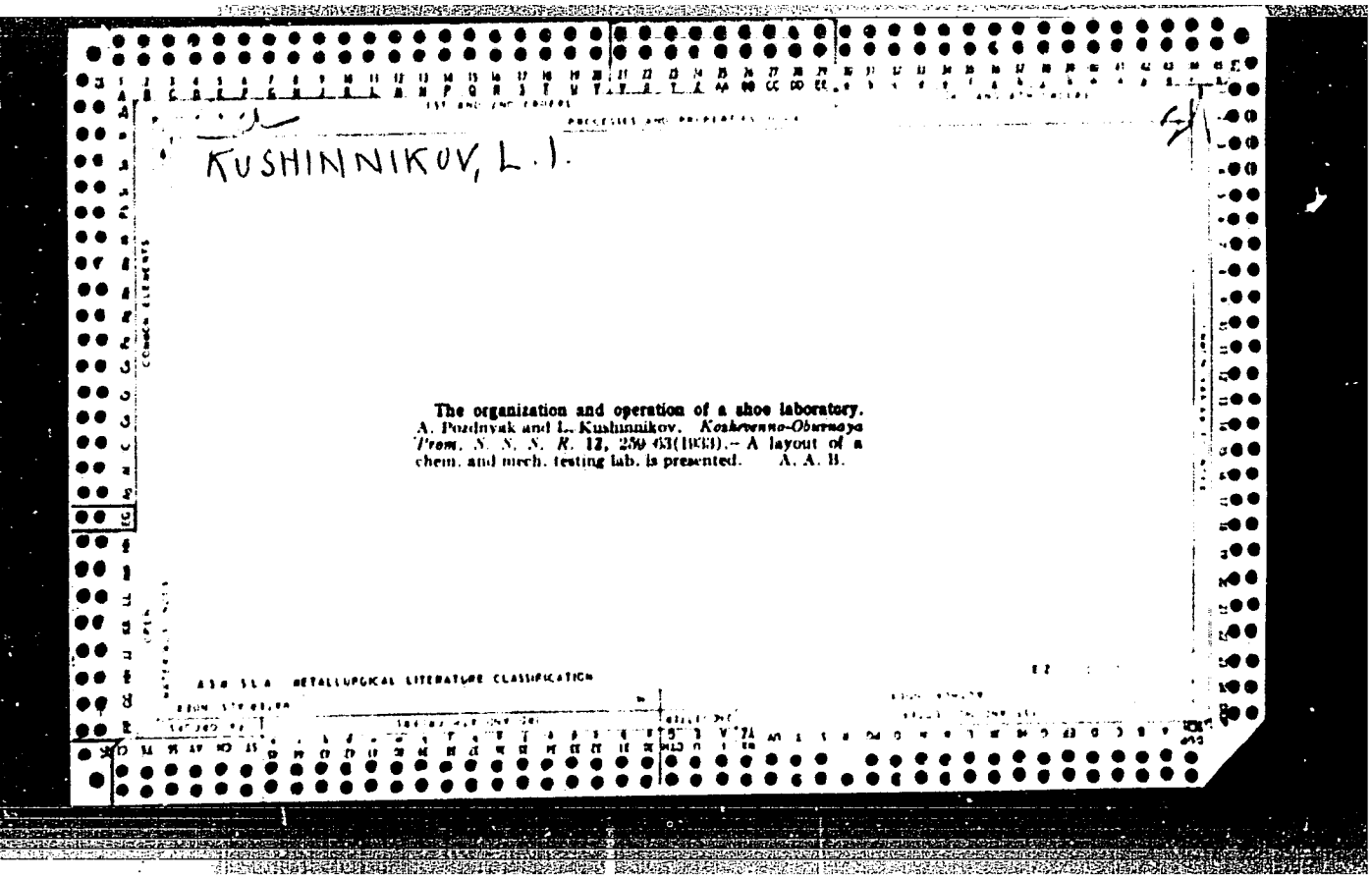
FOMICHEVA, A.S., nauchnyy sotrudnik; AKULOVA, M.F., veterinarnyy vrach; APOLLOSOV, K.A., veterinarnyy vrach; KUSHINA, L.K., veterinarnyy vrach; KOSTYAYEVA, A.A., vrach-bakteriolog (Rostov-na-Donu)

Role of antiphage serum in the diagnosis of brucellosis. Veterinariia 32 no.12:67-68 D '55. (MLRA 9:4)
(BRUCELLOSIS--DIAGNOSIS) (SERUM DIAGNOSIS)

IGNAT'YEV, M.A., veterinarnyy vrach, KUSHINA, L.K., veterinarnyy vrach;
LUZYANIN, D.Kh., veterinarnyy vrach.

Using an acidophil bouillon culture on Rostov Province state farms.
Veterinariia 34 no.4:64-65 Ap '57. (MLRA 10:9)

1. Rostovskaya mezhsovkhoznaya vetbaklaboratoriya.
(Bacteriology--Cultures and culture media)
(Rostov Province--Veterinary medicine)



KUSHINNIKOV, L. I.

The organization and operation of a shoe laboratory. A. Pozdnyak and L. Kushinnikov. *Koshevenno-Obuvnaya Prom. S. S. S. R.* 12, 259-63(1933).—A layout of a chem. and mech. testing lab. is presented. A. A. B.

KUSHNIROV, L. I., Engineer Cand Tech Sci

Dissertation: "Effect of Temperature on the Mechanical Properties of Top Leather during the Process of Manufacturing Footwear by the Methods of Hot and Kettle Vulcanization."

6/6/50

Moscow Technological Inst of Light Industry imeni L. M. Kaganovich.

SO Vecheryaya Mosk.
Sum 71

ZELENSKIY, M., instruktor; KUSHINOV, A., instruktor.

The economic regions compete. Sov.profsoiuzy 5 no.12:37-40 D '57.
(MIRA 10:11)

1. Leningradskiy oblastnoy sovet profsoyuzov.
(Leningrad Province--Industries) (Trade unions)

KONYAKHINA, M.A.: ANDREYEVA, V.I.: BYSTRYAKOVA, L.V., KUSHINOVA, G.A.: SHIRNOVA, A.I.

Clinical characteristics of dysentery in young children. Pediatriia no.2:Mr-Ap '55. (MLRA 8:8)

1. Iz kafedry infektsionnykh bolezney u detey (zav.-prof. M.G. Danilevich) Leningradskogo pediatricheskogo meditsinskogo instituta (dir.-prof. N.F. Shutova) i Detskoy infektsionnoy bol'nitsy Leninskogo rayona (glavnyy vrach A.M. Belyayeva)
(DYSENTERY, BACILLARY, in infant and child)

KUSHINSKAYA, N.L.

Changes in motor food conditioned reflexes in pigeons following ablation of the neocortex. Zhur. vys. nerv. deiat. 13 no.6:1077-1086 N-D '63. (MIRA 17:7)

1. Kafedra fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

KUSHITASHVILI, A.D. (Tbilisi)

Coal losses in various mining systems used in the mines of Tkibuli deposit. Ugol' 35 no.5:31-32 My '60.
(MIRA 13:7)
(Tkibuli--Coal mines and mining)

Kushkarev, D. G.

PARTICLE ACCELERATOR: SYNCHROTRON

"Influence of Scattering by Gas on the Synchrotron Oscillations of Particles in Accelerators", by D.G. Kushkarev, Pribory i Tekhnika Eksperimenta, No 2, March-April ,957, pp 15-18.

An investigation is made of the effect of inelastic scattering on the synchroton oscillations of particles in cicular proton accelerators. The calculation of the effect is made in the linear approximation. Formulas are obtained for estimating the fraction of the lost particles (without allowance for the damping of the oscillations) and for the increase in the rms amplitude of the phase oscillations. From the formulas derived, it is seen that the losses take place principally at small energies. The magnitude of the effect depends on many parameters of the accelerator, but, in operating accelerators, apparently it does not exceed the magnitude of the effect of elastic scattering on betatron oscillations. Reference is made to work by Blachman and Courant (Physical Review, 1948, 74, 140).

Card 1/1

KUSHKE E.E.

BERETZHINSKAYA, V.V.; ZEMLINSKIY, S.Ye.; KUSHKE, E.E.; MURAV'YEVA, V.I. SATSYPEROV, F.A. [deceased]; ITSKOV, N.Ya., kandidat sel'skokhozyayst. nauk, redaktor; TUROVA, A.D., doktor meditsinskikh nauk, redaktor; ZHUKOV, G.I., redaktor; BEL'CHIKOVA, Yu.S., tekhnicheskiy redaktor.

[Belladonna] Belladonna. Pod.red. N.IA. Itskova i A.D. Turovoi. Moskva, Medgiz, 1953. 115 p. (MLRA 7:8)
(Belladonna)

KUSHKE, V.P.

Some clinical and statistical data on patients discharged from Leningrad psychoneurological hospitals in 1957. Vop. psikh. i nevr. no.5:249-257 '59. (MIRA 14:5)

1. Iz orgmetodotdela (zav. - doktor med.nauk G.V.Zenevich) Instituta imeni V.M.Bekhtereva (direktor - chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR prof. V.N.Myasishchev).
(LENINGRAD--MENTAL ILLNESS)

KUSHKE, Y.P.

Significance of personality peculiarities in the appearance of hysterical manifestations in encephalitis. Sbor. trud. Len. nauchn. ob-va nevr. i psikh. no.6:184-193 '59. (MIRA 13:12)

1. Iz Psikhiatricheskoy kliniki Leningradskogo sanitarno-gigigenicheskogo meditsinskogo instituta (zav. - prof. V.K. Fedorov).
(ENCEPHALITIS) (PERSONALITY, DISORDERS OF)

KUSHKHABIYEV, V.I.

Regularities in the distribution of fistulous passages in tuberculous coxitis and their importance for the choice of surgical intervention. Ortop., travm.i protez. 24 no.9:38-42 S '63. (MIRA 17:4)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza (dir. - prof. D.K.Khokhlov, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. P.G.Kornev). Adres avtora: Kaberdino-Balkarskaya ASSR, Nal'chik, Dolinsk, Detskiy sanatoriy "Ogonek".

KUSHKHOV, Mukhazhid Sagidovich; PETUKHOVA, I.T., red.; KUMUKOVA, S.S., tekhn.red.

[Farm electrification in the Kabardino-Balkar A.S.S.R. during the seven-year plan] Elektrifikatsiia sel'skogo khoziaistva KBASSR v semiletke. Nal'chik, Kabardino-Balkarskoe knizhnoe izd-vo, 1960. 62 p. (MIRA 14:2)
(Kabardino-Balkar A.S.S.R.--Electricity in agriculture)

KUSHKHOV, Anatoliy Khazhbiyevich; TKHA[illegible]

[Outline of the history of botanical study of the Kabardino-Balkar A.S.S.R.] Ocherk istorii botanicheskogo izucheniia Kabardino-Balkarii. Nal'chik, Kabardino-Balkarskoe knizhnoe izd-vo, 1962. 345 p. (MIRA 16:3)

KUSHKIN, A.M., inzh., red.; PETROVA, V.V., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Instructions for designing sanitary engineering facilities for the main shops and sections of refractories plants] Ukazaniia po proektirovaniiu sanitarno-tekhnicheskikh ustroistv osnovnykh tsekhov i otdelenii zavodov ogneuporov SN 155-61. Utverzhdeny 7 ianvaria 1961 g. Izd. ofitsial'noe. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 104 p. (MIRA 14:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Refractories industry—Hygienic aspects)

S/598/61/000/006/006/034
D245/D303

AUTHORS: Sergeyev, V.V., Golov, A.G., Kushkin, B.N., and Sokolon, I.I.

TITLE: Separation of drilled reaction mass

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy. no. 6, 1961. Metallotermiya i elektrokhimiya titana, 38 - 40

TEXT: The authors studied the separation of Ti sponge from the reaction mass by drilling methods which they consider to have the following advantages: Equally good quality of Ti sponge, less contamination of the sponge with Fe, economy in labor and ease of mechanization. The main drawback of the drilling method is the need to carry out the operations in a room with a dry atmosphere and the criteria of humidity control for this purpose are specified as a maximum air humidity of 0.1 - 0.2 g/cubic meter and an air consumption of 700 - 1000 nm^3/hour. There are 1 figure and 2 tables.

Card 1/1

VASYUTINSKIY, N.A.; RYS'YEVA, Yu.I.; KOLYADIN, V.V.; CHERNYSHEVA, S.P.; KOSHETN, E.N.

Metallographic study of the porosity of magnesium-reduced titanium sponge. TSvet.met. 38 no.10:70-71 O '65.
(MIRA 18:12)

L 3499-66 EWT(m)/EPF(c)/EPF(n)-2/EWT(t)/EWP(b) IJP(c) JD
ACCESSION NR: AP5024859 UR/0136/65/000/010/0067/0070
669.295

38
B

AUTHOR: Rodyakin, V. V.; Kushkin, B. N.; Arutyunov, E. A.; Petrun'ko, A. N.
44,55 44,55 44,55 44,55

TITLE: Quality of magnesium-reduced sponge titanium with respect to its residual chlorine content
44,55,27

SOURCE: Tsvetnyye metally, no. 10, 1965, 67-70

TOPIC TAGS: sponge metal, titanium, chlorine, chlorine compound

ABSTRACT: The effect of the rate of feed of titanium tetrachloride (v_{TiCl_4}) to the reaction vessel on the structure of the resulting Ti sponge is investigated. Three different v_{TiCl_4} were selected: 150, 230, and 320 kg/m^2-hr. These encompass the entire range of variations in the feed rate during the process of reduction with liquid Mg. These rates were maintained constant for up to 55, 45, and 40% of the amount of Mg used, respectively, whereupon they dropped to 75-90 kg/m^2-hr. Separation was performed at 1020°C for all the three zones over the height of the

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L 3499-66

ACCESSION NR: AP5024859

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furnace, whereupon samples of the Ti sponge blocks were analyzed for Cl. Findings: as v_{TiCl_4} increases from 150 to 320 kg/m^2-hr, the Cl content of the sponge increases, particularly in the bottom of the block. As was to be expected, the content of residual Cl in the upper parts of the blocks is regularly much greater than in the lower parts. On transition from lower to higher rates, however, this difference shrinks and at 320 kg/m^2-hr it virtually disappears. An investigation of porosity with a special porograph showed that porosity of the sponge increases from 40.8 to 46.3% with increasing rate of reduction, which apparently is the reason for the increase in the content of residual Cl from 0.05 to 0.09% in the sponge. This last may be attributed to the deterioration in the conditions for the evaporation of the chlorides with decreasing size of pores. Orig. art. has: 3 figures, 3 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, GC

NO REF SOV: 001 OTHER: 001

Card 2/2 DP

L 3498-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD

ACCESSION NR: AP5024860 UR/0136/65/000/010/0070/0071 55
669.295:620.18 B

AUTHOR: Vasyutinskiy, N. A.; Rys'yeva, Yu. I.; Rodyakin, V. V.; Chernysheva, S. P.; Kushkin, B. N. 44,55 44,55 44,55 44,55 44,55

TITLE: Metallographic investigation of porosity in magnesium-reduced titanium sponge 44,55 27

SOURCE: Tsvetnyye metally, no. 10, 1965, 70-71

TOPIC TAGS: titanium, sponge metal, porous metal, porosity, metal grain structure, metal recrystallization

ABSTRACT: The structure of the titanium sponge produced by reduction with magnesium affects markedly the process of the vacuum separation of the sponge and particularly the degree of elimination of certain impurities. However, the available data on the porosity of Ti sponge are relatively limited, and besides the study of the structure of this sponge cannot be confined to porosity alone, since the internal structure of the sponge, i.e. its microcrystalline structure, also is of interest. Accordingly, the authors present the results of a metallographic in-

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L 3498-66
ACCESSION NR: AP5024860

vestigation by means of which new findings on this subject have been obtained. Specimens of Ti sponge were microscopically examined following their treatment with pore-filling rosin and subsequent polishing with abrasive powders and etching for 1 min in a solution of 10 cc HF, 30 cc HNO_3 and 50 cc H_2 at room temperature for 1 min. The specimens pertained to three different sponges produced at different rates of feed of $TiCl_4$ to the reactor. Findings: in sponge 1 ($TiCl_4$ feed rate: 150 kg/m^2-hr) irregularly shaped pores of from 40-60 to 100-150 μ predominate, with most of the pores having smooth (round) contours: in sponge 2 ($TiCl_4$ feed rate: 230 kg/m^2-hr) the micropore size is more uniform; in sponge 3 ($TiCl_4$ feed rate: 320 kg/m^2-hr) the micropore size is from 5 to 250 μ and the size distribution is as irregular as in sponge 1. On the whole, sponge porosity increases with increasing $TiCl_4$ feed rate, while at the same time the character of pores changes -- they become more irregularly shaped, with "lacerated" contours. This indicates an increase in the crystallization rate of Ti and a decrease in the effectiveness of recrystallization processes. Sections of sponge 1 reveal two basic structural varieties of the α-modification of Ti -- polyhedral (mostly equiaxial from 20-30 to 100-150 μ) and elongated acicular grains; this pattern is less distinctive for sponge 2. The visually observable dendrites of the titanium sponge proved, on microscopic examination, to have a polycrystalline structure, they

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I. 3498-66

ACCESSION NR: AP5024860

clearly underwant complete recrystallization, i.e. only the external remains of dendritic structures have survived. It is thus concluded that the change in the rate of feed of $TiCl_4$ to the reactor not only alters the extent and character of porosity of the sponge but also is accompanied by changes in the microstructure of Ti itself. It should be considered that the sponge investigated was subjected to the vacuum separation process, and hence the changes in sponge structure that were caused by change in the regime of reduction were offset to some extent by the subsequent changes in the structure of the sponge during its separation. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 005 OTHER: 000

Card 3/3

KUSHKIN, B.V.

E-2

USSR/ Organic Chemistry - Synthetic organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11785

Author : Postovskiy P.Ya., Kushkin B.V.
Title : Concerning the Structure of Disulfamides of Thiazole

Orig Pub : Zh. obshch khimii, 1956, 26, No 7, 2052-2058

Abstract : By alternatively introducing two different sulfaryl residues into 2-aminothiazole (I) were prepared isomeric disulfamides; thus by reacting I with p-chlorobanzene sulfochloride (II) and interacting the resulting 2-(p-chlorbenzenesulfamino)-thiazole (III) with acetylsulfanylchloride (IV) was synthesized 2-(p-chlorobenzenesulfamido) 3-(acetylsulfanylyl) -thiazolin-4 (V); and from 2-acetylsulfanylyl aminothiazole (VI) and II was prepared 2-acetylsulfanylylamido-3-(p-chlorobenzenesulfonyl) -thiazolin-4 (VII); analogously from 2-benzenesulfonyl aminothiazole and IV was synthesized 2-(benzenesulfonylimido)-3-(acetylsulfanylyl) -thiazolin-4 (VIII); and from VI and benzene sulfochloride -- 2-(acetylsulfanylylimido)-3-(benzenesulfanyl)-thiazolin-4 (IX). Structure of V, VII, VIII and IX is established by their ammonolysis with 15% solution of NH_3 (4 hours, 70°), as a result of which were obtained,

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USSR/ Organic Chemistry - Synthetic organic Chemistry E-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11785

respectively: VI and p-chlorobenzenesulfamide; III and acetylsulsonylamide (X); III and X; VI and benzenesulfamide; structure of V, VII, VIII and IX was also confirmed ultraviolet spectrum data. To 6 g I in 18 ml pyridie, added at 25° 12.6 g II, heated 3 hours at 60-70°, then 2 hours at 90-95°, added 50 ml water, separate Na-salt of III, and isolate III, yield 48.7%, MP 198-199° (from alcohol). 5.5 g III, 15 ml pyridine and 4.7 g IV left standing for 8 hours, to get V, yield 74.2%, MP 164-166° (from alcohol). Analogously are prepared VII, yield 74%, Mp 162-164° (from alcohol), and IX, yield 58%, MP 155-157° (from alcohol).

Card 2/2

KUSHKIN, L.F., inzh.

Making plain and reinforced concrete using crushed brick.
Biul.stroi.tekh. 12 no.9:8-9 S '55. (MIRA 12:1)
(Concrete)

KUSHKIN, V.V.; POSTOVSKIY, I.Ya.; RODIONOV, V.M., akademik.

On the tautomerism of 2-aminothiazole and its derivatives. Dokl.AN SSSR 93 no.1:63-65 N '53. (MLRA 6:10)

1. Akademiya nauk SSSR (for Rodionov). 2. Ural'skiy politekhnicheskiy institut im. S.M.Kirova (for Kushkin and Postovskiy).
(Thiazoles) (Tautomerism)

KUSHKIN, V. V.

Structure of disulfamides of thiazole. I. Ya. Postovskii and V. V. Kushkin. *Zhur. Obshchei Khim.* 20, 2012–8 (1950). The structure of disulfonamido derivs. of thiazole is reviewed. 2-Aminothiazole (8 g.) in pyridine with 12.6 g. *p*-ClC$_6$H$_4$SO$_2$Cl (I) at 90–5° gave 48.7% 2-(*p*-chlorobenzenesulfamido)thiazole (Ia), m. 198–9°, which in pyridine with *p*-AcNHC$_6$H$_4$SO$_2$Cl (II) gave 74.2% *2-(p-chlorobenzenesulfonimido)-3-(acetylsulfanilyl)-4-thiazoline* (IV), m. 161–2°. I with acetylsulfathiazole (III) in pyridine gave 74% *2-acetylsulfanilylimido-3-(p-chlorobenzenesulfonyl)-4-thiazoline* (IV), m. 183–4°. II and 2-(benzenesulfonamido)thiazole gave 52% *2-(benzenesulfonimido)-3-(acetylsulfanilyl)-4-thiazoline* (V), m. 143–5°. III and PhSO$_2$Cl gave 70.7% *2-(acetylsulfanilylimido)-3-(benzenesulfonyl)-4-thiazoline* (VI), m. 185–7°. IIa was hydrolyzed in 15% NH$_4$OH at 70° to *p*-ClC$_6$H$_4$SO$_2$NH$_2$ and III; IV gave acetylsulfanilamide and Ia; V gave acetylsulfanilamide and benzenesulfonamidothiazole, m. 164°; VI gave PhSO$_2$NH$_2$ and III. The new disulfonamides reported have the thiazoline structures.

G. M. Kosolapoff

KUSHKIN, V.V.

SHEYNKER, Yu.N.; KUSHKIN, V.V.; POSTOVSKIY, I.Ya.

Tautomerism of some heterocyclic derivatives. Part 2: Infrared and ultraviolet spectra and the structure of the 2-amino derivatives of thiazole. Zhur.fiz.khim. 31 no.1:214-226 Ja '57. (MLRA 10:5)

1.Khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze, Moskva i Ural'skiy politekhnicheskiy institut im. S.M. Kirova, Sverdlovsk.
(Thiazole--Spectra) (Tautomerism)

SHEYNKER, Yu.N.; POSTOVSKIY, I.Ya.; VORONINA, N.M.; KUSHKIN, V.V.

Tautomerism of some derivative of heterocyclic compounds. Part 4: Spectra and structure of benzenesulfonamides and sulfanilamides of the thiazole and thiodiazole series [with summary in English]. Zhur.fiz.khim.31 no.8:1745-1755 Ag '57. (MIRA 10:12)

1. Khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze, Moskva i Ural'skiy politekhnicheskiy institut im.S.M.Kirova, Sverdlovsk.
(Tauromerism) (Benzenesulfonamide--Spectra) (Sulfanilamide--Spectra)

KHMELEVSKIY, V.I.; KUSHKIN, V.V.; NOVIKOVA, A.P.; GETSOVA, I.N.

Antifungal compounds. Part 1: Dialkylaminoalkoxydiphenyls and fluorenones. Zhur.org.khim. 1 no.2:262-263 F '65.
(MIRA 18:4)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze.

[illegible] S.Ya.; KRINE[illegible], I.[illegible] [illegible]

Molecular mechanism of [illegible] bacterial transformation. Biokhim. [illegible] [illegible].
(MIRA [illegible])

1. Institut vysokomolekulyarnykh [illegible] SSSR, Leningrad.
Submitted April [illegible], 19[illegible].

KUSHKINA, R.I., red.; SOLDATOV, V.A., red.; PYATAKOVA, N.D., tekhn. red.

[National economy of the R.S.F.S.R. in 1962; statistical yearbook] Narodnoe khoziaistvo RSFSR v 1962 godu; statisticheskii ezhegodnik. Moskva, Gosstatizdat, 1963. 607 p. (MIRA 16:12)
(Russia—Statistics)

POD"YACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; KUSHKINA, R.I., red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 all-Union population census; the Kirghiz S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia 1959 goda; Kirgizskaia SSR. Moskva, Gosstatizdat, 1963. 149 p. (MIRA 16:5)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye. 2. Chlen Kollegii TSentral'nogo statisticheskogo upravleniya SSSR, nachal'nik Upravleniya po provedeniyu Vsesoyuznoy perepisi naseleniya (Pod"yachikh).
(Kirghizistan--Census)

POD"YACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; KUSHKINA, R.I., red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 all-Union population census; the Azerbaijan S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia 1959 goda; Azerbaidzhanskaia SSR. Moskva, Gosstatizdat, 1963. 157 p. (MIRA 16:5)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye. 2. Chlen Kollegii TSentral'nogo statisticheskogo upravleniya SSSR, nachal'nik Upravleniya po provedeniyu Vsesoyuznoy perepisi naseleniya (Pod"yachikh). (Azerbaijan—Census)

KUSHKINA, R.I., red.; FROLOVA, M.P., red.

[National economy of the R.S.F.S.R. in 1963; a statistical yearbook] Narodnoe khoziaistvo RSFSR v 1963 godu; statisticheskii ezhegodnik. Moskva, Statistika, 1965. 599 p. (MIRA 18:2)

KUSHKO, K. T., (Engr)

Dissertation: "Methods of Actual Investigations of the Action of Swells on Harbor Hydraulic Structures." Cand Tech Sci, Moscow Order of Labor Red Banner Engineering Construction Inst imeni V. V. Kuybyshev, 2 Jun 54.
Vechernyaya Moskva, Moscow, 28 May 54.

SO: SUM 284, 26 Nov 1954

KUSHKIS, K. T., kandidat tekhnicheskikh nauk

Natural investigation methods on the action of waves against hydraulic structures in harbors. Mor.flot 15 no.8:19-22 Ag '55. (MLRA 8:10)

1. Nachal'nik Nauchno-issledovatel'skoy stantsii TSentral'nogo Nauchno-issledovatel'skogo instituta morskogo flota
(Harbors) (Waves)

KUSHKIS, K.T., kand.tekhn.nauk.

First results of industrial investigations on the effect of waves on hydraulic structures in harbors. Trudy TSNIIMF no.12: 65-78 '57. (MIRA 11:2)

(Sea walls) (Waves)

KUSHKIS, K.T., kand.tekhn.nauk

Air breakwater for the protection of water areas from waves. Trudy TSNIIMF 7 no. 32:89-97 '61. (MIRA 14:5)
(Breakwaters)

KUSHKIN, R. O. Cand. Med. Sci.

Dissertation: "Differential Diagnosis in Cases of Renal Colic." Central Inst. for Advanced Training of Physicians. 13 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

30957. KUSHKIY, R. O. AND SHARAPOVA, T. P.

Itogn primeneniya antiretikulo-endotelial'noy tsitotoksiyaeskoy syvorotki pri ezvennoy boleznizheludka i dvenadts atipekstnoy kishki. V sb: Voprosy ostroy vnutrenney kliniki. M., 1949, s. 214-20

1552. **Combination of Peptic Ulcer with Cholecystitis.** (Сочетание язвенной болезни желудка или двенадцатиперстной кишки с холециститом)
R. O. Kushkul and D. T. Zhamanova. Клиническая Медицина [*Klin. Med., Mosk.*] 28, No. 3, 56–60, March, 1950. 3 refs.

Peptic ulcer and cholecystitis were present together in 6 to 8% of all cases of these diseases observed by the authors from 1945 to 1948. The number of these combined cases amounted to 62. Of these, in 35 cholecystitis developed as a complication of long-standing peptic ulcer; 24 had cholecystitis first, and peptic ulcer supervened at a known stage, while in 3 (of short standing) both cholecystitis and peptic ulcer were present from the start of observation.

In these cases recovery takes a long time and patients are liable to frequent and painful recrudescence. They should be admitted to hospital at once. Both conditions require thorough treatment, and often only operative measures will lead to their cure. In some cases the

1552 cont.

complication of one disease by the other was indicated by the development of fresh symptoms, in some only by clinical investigations undertaken because of the persistence of the illness. Examination of duodenal contents by intubation sometimes gave the first indication of the supervention of cholecystitis, or the finding of a duodenal niche in the course of a routine opaque meal revealed unsuspected ulceration in a case of cholecystitis. Often the only suspicious symptom was a mild pyrexia, a persistent pain not related to food or unrelieved by antacids, or the onset of a pain strictly related to food.

L. Firman-Edwards

Abstracts of World Medicine
Vol 8 1950

KUSHKIY, R.O., kandidat meditsinskikh nauk; VOROB'YEVA, A.I.

Dystrophy of tissues of the shoulder girdle in myocardial infarct. Sov. med. 18 no.12:15-19 D '54. (MLRA 8:2)

1. Iz terapevticheskoy kliniki (zav.-prof. A.A.Gerke) Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni Skliforovskogo (dir. M.M.Tarasov)

(MYOCARDIAL INFARCT, complication
brachial region dystrophy)
(SHOULDER, diseases
dystrophy, in myocardial infarct)

KUSHKIY, R.O. (Moskva)

Syndrome of right ventricular insufficiency in hypertension. Klin. med. 34 no.5:49-52 My '56. (MLRA 9:10)

1. Iz terapevticheskoy kliniki (dir. - zasluzhennyy deyatel' nauki deystvitel'nyy chlen AMN SSSR prof. A.N.Kryukov [deceased]) Instituta imeni Sklifosovskogo (dir. - zasluzhennyy vrach USSR M.M.Tarasov)

(HYPERTENSION, complications,
right cardiac ventric. insuff. (Rus))
(CONGESTIVE HEART FAILURE, etiology and pathogenesis
hypertension causing right ventric. insuff.)

KUSHKIY, R.O., kand. med. nauk; MINIOVICH, M.M.; MAKAROVA, A.A. (Moskva)

Changes in the ocular fundus in rheumatism. Klin. med. 37 no.5: 38-41 My '59. (MIRA 12:8)

1. Iz terapevticheskoy kliniki (rukovoditel' - prof. P.L. Sukhinin) Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni Sklifosovskogo (dir. - zasluzhennyy vrach USSR M.M. Tarasov).

(RHEUMATISM, pathol.
ocular fundus (Rus))
(EYE, pathol.
fundus in rheum. (Rus))

KUSHKIY, R.O.; MINIOVICH, M.M.

Neuropsychic disorders in cardiovascular diseases. Trudy Inst. im. N.V. Sklif. 5 no.2:78-84 '62. (MIRA 18:6)

CHAZOV, Ye.I.; ANDREYENKO, G.V.; SPEKTOROVA, Z.G.; RAYEVSKAYA, V.V.; MOISEYEV, S.G.; BABSKIY, Ye.B.; BREDIKIS, Yu.I.; KUSHKIY, R.O.; KALITEYEVSKAYA, V.F.; BEREZOV, Ye.; POKROVSKIY, A.V.; MEL'NIK, I.Z.; AGRANENKO, V.A.; VINOGRADOVA, I.L.; SKACHILOVA, N.N.; VIKHERT, A.M.; ZAMYSLOVA, K.N., prof.; SOKOLOVSKIY, V.P., prof.; BEYUL, Ye.A., kand.med.nauk; SOLOV'YEV, V.V.

Minutes of the meetings of the Moscow Society of Therapeutists. Terap.arkh. 35 no.1:112-118 Ja'63. (MIRA 16:9)
(THERAPEUTICS--ABSTRACTS)

KUSHKIY, R.O., kand. med. nauk; KALITEYEVSKAYA, V.P.

Weber-Christian disease. Ter. arkh. 35 no.4:111-114 Ap'63
(MIRA 17:1)

1. Iz 1-y terapevticheskoy kliniki (rukovoditel' - doktor med. nauk S.G. Moiseyev) i patologoanatomicheskogo otdeleniya (rukovoditel' - doktor med. nauk N.K.Permyakov) Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni instituta skoroy pomoshchi imeni N.V. Sklifosovskogo (dir. - zasluzhennyy vrach UkrSSR M.M.Tarasov).

ABRAMOV, M.G., doktor med. nauk; ALEKSEYEV, G.A., prof.; ASTAPENKO, M.G., prof.; BUREYKO, V.M., dots.; VARSHAMOV, L.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIRSKIY, I.A., prof.; KUSHKIY, R.O., doktor med. nauk; LIBERMAN, B.I.; LIKHTSIYER, I.B., prof.; LUZHETSKAYA, T.A., kand. med. nauk; MOISEYEV, S.G., prof.; NASONOVA, V.A., dots.; NESGOVOROVA, L.I.; POROSHINA, I.I.; PREOBRAZHENSKIY, A.P., dots.; RADVIL', O.S., prof.; RATNER, M.Ya., doktor med. nauk; RASHEVSKAYA, A.M., prof.; SEMENDYAYEVA, M.N., kand. med. nauk; SIGIDIN, Ya.S., kand. med. nauk; ARTEM'YEV, S.G., red.

[Therapeutist's handbook] Spravochnik terapevta. Izd.2., ispr. i dop. Moskva, Meditsina, 1965. 863 p.
(MIRA 18:6)

1. Deystvitel'nyy chlen AMN SSSR (for Kassirskiy).

GRINBERG, I.V.; KUSHKO, G.M.

The interaction of condensed phenols, naphthols and their derivatives with various diazo components. Nauch. zap. LPI no.29:121-130 '55. (MLRA 9:10)

(Phenols) (Naphtol) (Diazo compounds)

LUZHNOV, Ye.I.;FAT'YANOV, N.I.; KHOTIMCHENKO, N.M.; KUSHKO, I.M., redaktor; RAKHLINA, N.P., tekhnicheskiy redaktor.

[Cyclical work schedule for coal mines of the Donets Basin] Grafic tsiklichnoi raboty ugol'nykh shakht Donbassa. Kiev, Izd-vo Akademii nauk Ukrainskoi SSR, 1953. 52 p.(MLRA 8:2)
(Donets Basin--Coal mines and mining)

Country	:Czechoslovakia
Category	:Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Cocci.
Abs. Jour	:Ref Zhur-Biol., No 23, 1958, No 105810
Author	:Konikova, A.P.; Kushko, I.V.
Institut.	:--
Title	:Production of Crystalline Erythrogenic Scarlet-Fever Toxin
Orig Pub.	:Zh. gigiyeny, epidemiol., mikrobiol. i immunol., 1957, 1, No 3, 225-229
Abstract	:No abstract.

Card: 1/1

F-44

Country : F
Category :

Abs. Jour : Ref Zhur-Biol., No 24, 1958, No 109860

Author :
Institut. :
Title :

Orig Pub. :

Abstract (Cont.) : of paper chromatography for the differentiation of the Strentococcus hemolyticus and Streptococcus viridans.-- From the authors' resume.

Card: 2/2

KUSHKO, I.V.

KONIKOV, A.P.; KUSHKO, I.V.

Preparation of a crystalline erythrogenic scarlet fever toxin. J. Hyg. Epidem., Praha 1 no.3: 256-261 1957.

1. The Gamaleya Institute of Epidemiology and Microbiology, Moscow.
(SCARLET FEVER, immunol.
crystalline erythrogenic toxin prep.)

KUSHKO, I.V., Cand Med Sci--(dis) "Obtaining of a crystallic scarlatinous toxin and its immunochemical ~~action~~ study." Kos, 1958. 11 pp (Inst of Epidemiology and Microbiology im N.F.Gamaleya, Acad Med Sci USSR), 200 copies (KL,46-58, 152)

KUSHKO I.V., KONIKOV, A.P., SHCHEGLOVA, A.S.

Purification and crystallization of erythrogenic scarlet fever toxin [with summary in English]. Vop.med.khim. 4 no.1:33-38 Ja-F'58 (MIRA 11:5)

1. Otdel biokhimii i otdel detskikh infektsiy Instituta imeni N.F. Gamalei, Moskva.
(SCARLET FEVER, immunology
erythrogenic toxin, purification & crystallization (Rus))

KUSHKO, I.V.

Use of the hemagglutination reaction in the titration of antiscarlet fever sera. Zhur. mikrobiol. epid. i immun. 31 no. 5:36-39 My '60. (MIRA 13:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(SCARLET FEVER) (SERUM) (BLOOD--AGGLUTINATION)

KUSHKO, I.V.; AKIMOVA, V.V.

Comparative experimental study of 3 sorbed preparations of scarlet fever erythrogenic toxin. Zhur.mikrobiol.epid.i immun. 31 no.8:51-54 Ag '60. (MIRA 14:6)

1. Iz Otdela biokhimii i Otdela profilaktiki detskikh infektsiy Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(SCARLET FEVER) (TOXINS AND ANTITOXINS)

KUSHKO, I. V. (USSR)

"Determination of the Molecular Weight and Amino Acid Composition of Crystalline Scarlatina Erythrogenic Toxin."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

L 12316-63 EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ ASD JD S/081/63/000/005/028/075 54

AUTHOR: Kushko, L. M. and Zverev, I. D.

TITLE: Radiogenic origin of argon in natural and petroleum gases

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 161, abstract 5E126 (Geol. neftii gaza, 1962, no. 9, 48 - 50)

TEXT: The isotopic composition of argon is determined in natural gases from 4 deposits and in 8 by-product gases of petroleum and gas deposits. Only in one natural gas was radiogenic argon detected (14.1%), while in all the by-product gases it was detected in quantities ranging from 1 to 48.8%. An increase in the amount of radiogenic argon with increase in depth was observed. E. Sobotobich.

[Abstractor's note: Complete translation]

Card 1/1

KUSHKO, L.S., Geroy Sotsialisticheskoi Pratsi.

We use Mamai methods. Mekh. sil'. hos. 9 no.4:9-10 Ap '58.
(MIRA 11:5)

1.Brigadir traktornoi brigadi Ovidiopol'skoi mashinno-traktornoi stantsii Odes'koi oblasti.
(Odessa Province--Collective farms)

KUSHKO, L.S., Geroy Sotsialisticheskogo Truda

Honorable duty of every efficient worker. Mekh.sil'.hosp. 8 no.9:3-4 S '59. (MIRA 13:1)

1. Brigadir traktornoy brigady kolkhoza im. Dzerzhinskogo Ovidiopol'skogo rayona, Odesskoy oblasti.
(Agricultural machinery--Maintenance and repair)

ARKHANGEL'SKAYA, Z.S.; KUSHKO, O.V.; POLUBOYARINOVA, A.G.

Study of the method of blood conservation without a stabilizer. Trudy Kiev. nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:40-47 '61. (MIRA 17:10)

1. Kiyevskiy institut perelivaniya krovi.

KUSHKO, O.V., mladshiy nauchnyy sotrudnik

Role of autoimmunization in the development of burn diseases. Vrach. delo no. 3:3-7 Mr '61. (MIRA 14:4)

1. Khirurgicheskaya klinika (zav. - prof. V.I. Akimov) Kiyevskogo nauchno-issledovatel'skogo instituta perelivaniya krovi i neotlozhnoy khirurgii.

(BURNS AND SCALDS) (ANTIGENS AND ANTIBODIES)

KUSHKO, Vasiliy Mikhaylovich

DECEASED

1964

c.63

Biochemistry

Vitamins

KUSHKOV, K.G.

Machinery for the fields of Moscow Province. Mest.prom.i khud. promys. 2 no.2:4 F '61. (MIRA 14:4)

1. Zamestitel' predsedatelya Mosoblispolkoma.

(Moscow Province--Farm mechanization)

KUSHKOV, N. M. Cand Phys-Math Sci -- (diss) "Qualitative study of a certain nonlinear system of two differential equations." Len, 1956. 11 pp (Len Order of Lenin State Univ im A. A. Zhdanov), 150 copies. Bibliography: p 10-11 (15 titles) (KL, 36-58, 110)

KUSHKOV, N.N.

Periodical solutions of a system of two differential equations.
Insh.-fiz.shur. no.10:94-100 O '58. (MIRA 11:11)

1. Inzhenerno-stroitel'nyy institut, g. Leningrad.
(Differential equations)

KUSHKOV, N.N.

Qualitative analysis of a system of two differential equations.
Usp.mat.nauk 13 no.2:195-202 Mr-Ap '58. (MIRA 11:4)
(Differential equations)

KUSHKOV, N.N.

Theorems on limit cycles for a system of nonlinear oscillations.
Usp.mat.nauk 13 no.2:203-209 Mr-Ap '58. (MIRA 11:4)
(Differential equations)

32199
S/201/61/000/003/002/006
D299/D303

16.3400

AUTHOR: Kushkov, N. N.

TITLE: Theorem on periodic solutions of a system of two differential equations

PERIODICAL: Akademiya nauk Bielorusskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh nauk. no. 3, 1961, 21-24

TEXT: A theorem on the existence of limit cycles is stated and proved. The system of nonlinear oscillations

$$\frac{dx}{dt} = y + f(x), \quad \frac{dy}{dt} = g(x) \qquad (1)$$

is considered on the assumption that the conditions of existence and uniqueness of the solutions are satisfied for any (x,y), and that the generalized Hurwitz conditions $xf(x)<0$, $xg(x)<0$ for $x \neq 0$ ($f(0) = g(0) = 0$) are disturbed at all the points of a certain finite interval. The following notations are introduced: $y = Y^{*}(x)$ -

Card 1/3

Theorem on periodic ...

the integral curve of the equation $dy/dx = g(x)/y + f(x)$, passing through the point $(x_1, 2M)$; $V^{(H)}(y)$ and $V^{(1)}(y)$ - the values of Lyapunov's function $V(x,y) = 1/2y^2 + \int_0^x - g(x)dx$ on the straight lines $x = 0$, $x = x_1$ respectively. The theorem states the conditions with respect to the functions $f(x)$ and $g(x)$, whose fulfilment results in the existence of at least two limit cycles (one of which lies in the strip $-x_2$ x x_2); if, in conditions

$$\int_{x_0}^{x_2} g(x)f(x)dx \geqslant \alpha \int_0^{x_0} g(x)f(x)dx \qquad (\alpha \geqslant 3) \qquad (3)$$

$\alpha \geqslant 9$, then only a single limit cycle exists, which possesses points outside the strip $-x_2$ x x_2. Proof: First it is proved that

Card 2/3

Theorem on periodic ...

the integral curve $y = Y^{*}(x)$ intersects the curve $y = f(x)$ in the interval (x_1, x_2). This proof involves the results of an earlier work by the author. Thereupon, the integral curves $Y_1(x)$ and $Y_2(x)$ are considered, and the proof of the theorem completed. There are 3 figures and 2 Soviet-bloc references.

4

Card 3/3

KUSHKOV, N.N., kand. fiziko-matem. nauk

Limit cycles of a system with nonlinear vibrations. Trudy LTITSBP no.10:135-143 '62. (MIRA 16:8)

(Vibration) (Differential equations)

KUSHKOV, N.N., kand.fiziko-matem. nauk

Studying an automatic control system. Trudy LTITSBP no.11: 165-169 '62. (MIRA 16:10)

KOST, A.N.; SHEYMAN, B.M.; KUSHKOV, V.K.

Esters of ethylene cyanohydrin in the Friedel-Krafts reaction. Izv.vys.ucheb.zav.; khim.i khim.tekh.. 4 no.1:87-91 '61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, kafedra organicheskoy khimicheskoy tekhnologii.
(Friedel-Krafts reaction) (Hydracrylonitrile)

1. KUSHKOVA, G. P.

2. USSR (600)

4. X-Rays

7. Using roentgenorgaphy for internal study in rabbit raising. Dost.sel'khoz. no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

KUSHKOVA, Galina Petrovna; ASTAKHOV, S.A., red.; LOGINOVA, Ye.I., tekhn.red.

[Raising young rabbits] Vyrashchivanie molodniaka krolikov. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1959. 19 p.
(MIRA 14:1)

(Rabbits)

KUSHKOVA-LYAKHOVICH, M.L.

"D.D.Bekariukov" by A.S.Troitskaia. Reviewed by M.L.Sushkova-Liakhovich. Pediatriia no.9:91 S '57. (MIRA 10:12)
(BEKARIUKOV, DIMITRII DIMITRIEVICH, 1860-1934)
(TROITSKAIA, A.S.)

Country : USSR V
Category: Pharmacology. Toxicology. Cardio-Vascular Agents.

Abs Jour: RZhBiol., No 6, 1959, No 27803

Author : Kushlevskiy, B.P.; Rezenblat, F.Ya.
Inst : Sverdlovsk Medical Institute
Title : On Clinical Testing of New Agents for Treatment of Cardio-Vascular Diseases: Spasmolytic-Aprophene and Nitranole, Anticoagulant- Phenilline and Diuretic - Dianox.

Orig Pub: Tr. XX Godichn. nauchn. sessii (Sverdl. med.) in-ta, 1957, sb. 22, 181-183

Abstract: No abstract.

Card : 1/1